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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,991	08/09/2001	Gopal N. Iyer	60027.0022US01	4754
39262	7590	04/21/2004	EXAMINER	
BELLSOUTH CORPORATION P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903				HANNE, SARA M
ART UNIT		PAPER NUMBER		
		2173		

DATE MAILED: 04/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/925,991	IYER, GOPAL N.
	<b>Examiner</b>	<b>Art Unit</b>
	Sara M Hanne	2173

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 8/9/01 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview-Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

BA HUYNH  
PRIMARY EXAMINER

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claim 1-2, 5-6, 8-10, 12-13 and 19 rejected under 35 U.S.C. 102(a) as being anticipated by Havinis et al., US Patent 6463289.

As in Claims 1 and 8, Havinis et al. teaches a computer implemented method and computer-readable medium with computer-readable instructions for receiving form name input to identify data in a cellular site information database and receiving a key field identifying a cellular site (“defined at least one restricted geographical area 160, Column 4, lines 20-21), then generating queries to retrieve data (“restricted area information”) corresponding to the identified cellular site from the database (“stored in a database, such as an Intelligent Network (IN) node”, Column 2, lines 7-8), and sending the queries (query 140) to the database (IN), receiving the data corresponding to the identified cell site from the database and displaying this data (“the restricted area information 150 can be passed back to the MSC/VLR”, Column 4, lines 21-22).

As in Claim 2, Havinis et al. teaches the key field is input by a user (“the mobile subscriber has defined at least one restricted geographical area 160”, Column 4, lines 20-21).

As in Claim 9, Havinis et al. teaches the form name input is a channel (geographical area 160 or “address of the serving MSC/VLR 14”, Column 4, line 49)

As in Claim 10, Havinis et al. teaches receiving user input editing the data, generating commands corresponding to edit cellular site information database to edit the data (“Using this routing information, the GMLC 290 transmits a MAP\_PROVIDE\_SUBSCRIBER\_LOCATION message, which contains the positioning request 285, to the serving MSC/VLR”, Column 4, lines 55-58).

As in Claim 12, Havinis et al. teaches a cellular site database system with a database to maintain forms related to the cellular site (each form relating to a geographical area), a cellular processor for accessing the database forms (MSC/VLR), and an update application program module to receive data related to one of the forms (See Claim 1 rejection, *supra*) so that it may be displayed on a display device (mobile subscriber screen, 20).

As in Claim 13, Havinis et al. teaches the update application program module operative to transmit commands to the cellular processor (step 560, Figure 5).

As in Claim 19, Havinis et al. teaches a method for editing a cellular site database by generating commands to identify a form of the cellular site information database, receiving the form from the database (Claim 1 rejection *supra*) and receiving edited values for the fields in the form, thereby generating editing commands to edit the fields in the form, and transmitting the editing commands to the cellular site information database (MSC/VLR 14 to send ... including the location estimate 298, to the IN node

250 that stores the restricted are information 150 for the MS 20", Column 5, lines 55-58).

As in Claims 5-6, it is inherently included in Havinis et al. for the queries to be several line commands executed by a command handler application with interfaces in conjunction with a cellular site information database. A command handler application is necessary to handle user-inputted commands, which are taught by Havinis et al. (requests made by the mobile subscriber, See also Claim 1 rejection *supra*).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Havinis et al., US Patent 6463289.

Havinis et al., discloses separating the information selected from the rest of the document. Havinis et al., fails to teach and Ericsson database and Operation supports system as recited in the claims. Within the field of the invention, it would be obvious to one of ordinary skill in the art to use an Ericsson database and Operation Support system with the invention since the Assignee for the Havinis et al. Patent is Ericsson Inc. One would have been motivated to make such a combination because a query interface for use in a specific database system would have been obtained.

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5. Claims 4-6, 11, 14-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Havinis et al., US Patent 6463289 as applied to claims 1, 12 and 19 above, and further in view of Cambray et al., US Patent 5577112.

Havinis et al. teaches a method for querying cellular site information databases according to specified key field form name input and editing of this data as in Claims 1, 12 and 19. While Havinis et al. teaches cellular site information database querying and editing, they fail to show the use of either SQL commands (specifically update, review, insert and delete), as recited in Claims 4, 11, 14-18 and 20, or a command handler application to execute commands in conjunction with the cellular site database as recited in claims 5-6. In the same field of the invention, Cambray et al. teaches a telecommunication management system similar to that of Havinis et al. In addition, Cambray et al. further teaches the queries are completed using SQL commands (via an interactive query language such as by standard query language (SQL) commands.", Column 3, lines 53-55) as in Claims 4, 11, 14, 20, specifically editing commands such as update (modify), review (list), insert and delete (Column 6, lines 28-32) as in claims 15-18. It would have been obvious to one of ordinary skill in the art, having the teachings of Havinis et al. and Cambray et al. before him at the time the invention was made, to modify the querying method using form name input taught by Havinis et al. to include the SQL commands of Cambray et al., in order to obtain a query system implemented using a structured query language. One would have been motivated to make such a combination because an efficient query system of cellular site databases would have been obtained, as taught by Cambray et al.

**Conclusion**

The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111(c) to consider these references fully when responding to this action. The documents cited therein teach similar user interfaces for querying and editing cellular site information databases.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sara M Hanne whose telephone number is (703) 305-0703. The examiner can normally be reached on M-F 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (703) 308-3116. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

smh

BAIUYNH  
PRIMARY EXAMINER